

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029

SUBJECT: Toxicological Review of HW62 Data 19 July 2012
Dimock, PA

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On 22 May 2012, U.S. EPA collected samples from HW62 in Dimock. These samples were collected only from the wellhead, not the tap, and analyzed for a suite of constituents, including volatile compounds, semi-volatiles, inorganics, radionuclides and bacteria. The analytical results were then validated and compared to risk-based screening levels and/or standards for public drinking water supplies. Findings in excess of these comparison concentrations are presented below.

Chromium

Chromium was detected in unfiltered and filtered wellhead samples at respective concentrations of 4.5 and 3.6 ug/L. The risk-based screening level for the *most toxic* form of chromium (hexavalent) is 3.1 ug/L. The concentrations observed in HW62 slightly exceed this value, yielding an excess cancer risk in the 1E-04 range under conditions of long-term exposure. Note, however, that the form of chromium detected in these samples is not known. If the reported concentrations represent the much less toxic trivalent form of chromium (with a risk-based screening level of 16,000 ug/L), then there is no risk associated with exposure.

Coliform Bacteria

In HW62, the total coliform count was 200 cfu/100 mL. The purpose of analyzing for total coliform is to indicate the potential presence of fecal coliform, which is an illness-causing member of the coliform family. The presence of fecal coliform could cause severe gastrointestinal illness in exposed individuals. In HW62, fecal coliform was absent in the collected sample; therefore, no adverse health effects are expected.

No other constituents were detected at levels of concern in HW62.



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